

distance from  $-2'',25$  to  $-17'',20$ . The difference in the right ascension of *Mars* varies from  $-0^s,43$  to  $+1^s,02$ , and in polar distance from  $-14'',25$  to  $+7'',64$ . M. Bianchi regrets that he has not been able to make more observations; and states, as his reason for not attending sooner to the circular issued by this Society, that his duties as instructor of mathematics to the young prince prevented his attendance at the observatory at an earlier period.

V. Extract of a Letter from M. Cauchoix to Mr. Lubbock, dated October 1831.

“ I have just finished another object-glass, of the same dimensions as that which Sir James South is now mounting, and which appears to me as perfect. I used for it one of the three pieces of glass which were set apart for the first object-glass, and I have adapted to it a new disc of flint-glass. A trial of it with *Jupiter* does not detect any flaw, either in the flint or crown glass. I hope also to be able to make a third glass of similar dimensions, as well as another glass of the same size as that which Mr. Cooper has lately bought of me. I have likewise another kind of telescope, which I have made for these two or three years, where *rock-crystal* is substituted for the crown-glass, by which means the focus is considerably shortened, and the brilliancy and clearness of the image greatly increased. But, at present, I have not been able to make them of larger diameter than about  $5\frac{1}{4}$  English inches.”

VI. A Catalogue of Stars, observed with the Moon, from June to October, 1831, at the Greenwich Observatory. From the Astronomer Royal :—

1831.			<sup>h</sup>	<sup>m</sup>	<sup>s</sup>
June 20	.....	▷ 1 L .....	14	36	51,54
		2 ζ Libræ.....	14	48	5,08
21	.....	▷ 1 L. ....	15	24	52,90
		η Libræ.....	15	35	3,78
		θ Libræ.....	15	44	42,04
24	.....	▷ 1 L. ....	17	56	25,48
		(21) Sagittar. ..	18	15	48,16
		(94) Sagittar. ..	18	22	26,90
July 22	.....	▷ 1 L. ....	18	30	45,98
		ξ <sup>1</sup> Sagitt. ..	18	48	1,20
		(316) Sagitt. ..	19	0	33,44
		d Sagitt. ..	19	8	28,24
Aug. 19	.....	(112) Sagitt. ..	18	26	22,26
		r Sagitt. ..	18	40	35,06
		ξ <sup>1</sup> Sagitt. ..	18	48	14,53
		▷ 1 L. ....	19	3	18,36
Sept. 22	.....	(120) Piscium..	0	27	20,40
		▷ 2 L. ....	0	59	10,66
Oct. 16	.....	A Aquarii.....	21	15	40,76
		▷ 1 L.....	21	49	41,44

Oct. 19	.....	(227) Piscium..	23	46	54,06
		(270) Piscium..	23	57	10,50
		10 Ceti .....	0	18	43,98
		▷ 1 L.....	0	30	50,10
21	.....	(144) Piscium..	1	32	29,34
		o Piscium..	1	37	16,52
		ξ <sup>1</sup> Ceti.....	2	4	50,84
		▷ 2 L.....	2	27	0,48
23	.....	θ <sup>1</sup> Tauri .....	4	19	45,22
		θ <sup>2</sup> Tauri .....	4	19	50,90
		Aldebaran ....	4	27	3,40
		▷ 2 L.....	4	29	38,98
27	.....	▷ 2 L.....	8	40	44,32
		β Leonis .....	11	41	16,16
28	.....	▷ 2 L.....	9	38	12,70
		Regulus .....	10	0	13,32

VII. A paper on the Orbits of Binary Stars, by Sir J. F. W. Herschel, was commenced. The abstract will be given after its completion.